

Title (en)

Wireless device for selecting connection target based on signal quality, system and method thereof

Title (de)

Drahtlose Vorrichtung zur Auswahl des Verbindungsziels basierend auf Signalqualität, sowie System und Verfahren dafür

Title (fr)

Dispositif sans fil permettant de sélectionner une cible de connexion basée sur la qualité du signal, système et procédé associés

Publication

**EP 2544488 A1 20130109 (EN)**

Application

**EP 11172943 A 20110706**

Priority

EP 11172943 A 20110706

Abstract (en)

A wireless device for selecting a connection target based on signal quality, a system and a method thereof are provided. The invention selects a candidate device having the best signal quality and duration of the signal quality is not less than a threshold reaching a certain time. If the selected candidate device also selects the wireless device, a unique connection is established between the wireless device and the candidate device. In a dynamical and complicated environment, the disclosed system and the method can build up a stable linear topology through automatic negotiation among wireless devices. The invention then achieves the effect of updating topology in time to adapt to environment changes.

IPC 8 full level

**H04W 48/20** (2009.01)

CPC (source: EP)

**H04W 48/20** (2013.01)

Citation (search report)

- [A] GB 2421875 A 20060705 - MOTOROLA INC [US]
- [A] EP 1401229 A1 20040324 - ERICSSON TELEFON AB L M [SE]
- [A] EP 2180736 A1 20100428 - NTT DOCOMO INC [JP]

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Designated contracting state (EPC)

AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)

BA ME

DOCDB simple family (publication)

**EP 2544488 A1 20130109; EP 2544488 B1 20140806**

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